

AbstractMethod and Apparatus for Transmitting Data

5 Data relating to the status of users 12 in a  
mobile communications system is broadcast via  
satellite 8 from a network register 4 to local  
registers 10 in an HDLC format. Each of the local  
registers 10 requests retransmission of any HDLC  
frames which are incorrectly received. The network  
register 4 records the earliest transmitted frame not  
10 yet acknowledged by all of the local registers and  
inhibits transmission of new frames if they fall  
outside a transmission window relative to the earliest  
transmitted frame. The network register 4 polls the  
local registers 10 for retransmission requests and the  
15 local registers 10 also send unsolicited requests to  
the network register 4. The network register 4 only  
retransmits a frame once if multiple requests for that  
frame are transmitted within a predetermined period.

20 When a new local register 10 enters the broadcast  
reception group, the network register 4 informs the  
new local register 10 which new frame will next be  
transmitted.

25 The number of bits used for frame sequence  
numbers is greater than that defined in the HDLC  
protocols.

[Figure 1]